

Abstract

A valve installed at the inlet of a thermostatic mixing device for automatically stabilizing the operation of the thermostatic device by maintaining the pressure within the thermostatic mixing device close to the water supply pressure, thereby making the thermostatic device response to small pressure changes while maintaining the fluid flow through the device. The valve comprises a tubular body inserted within the water supply line, a holding seat within the tubular body, a cursor that moves within the valve body with respect to the seat, the cursor moving between a first position where the seat is partially occluded and a second position where the seat is substantially clear. The cursor is subjected to the pressure existing inside the thermostatic mixing device, and a spring positioned with the valve body that acts upon the cursor to urge the cursor towards the first cursor position.